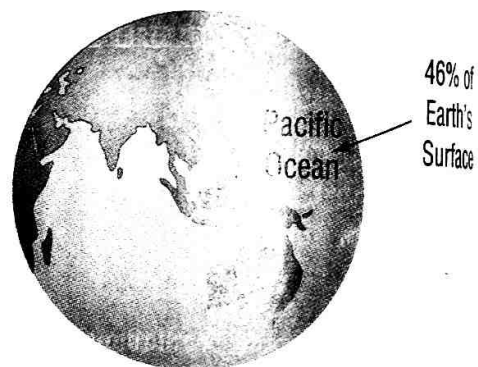


Apply

Translate each sentence into an equation.

13. Two hundred minus three times x is equal to nine.
14. The sum of twice r and three times s is identical to thirteen.
15. The sum of one-third q and 25 is as much as twice q .
16. The square of m minus the cube of n is sixteen.
17. Two times the sum of v and w is equal to two times z .
18. Half of the sum of nine and p is the same as p minus three.
19. The number g divided by the number h is the same as seven more than twice the sum of g and h .
20. Five-ninths the square of the sum of a , b , and c equals the sum of the square of a and the square of c .

21. **GEOGRAPHY** The Pacific Ocean covers about 46% of Earth. If P represents the area of the Pacific Ocean and E represents the area of Earth, write an equation for this situation.

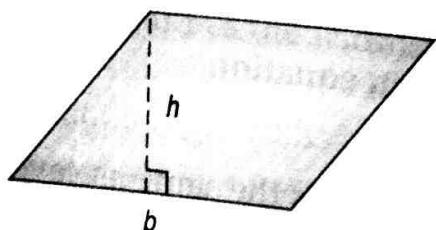


Source: World Book Encyclopedia

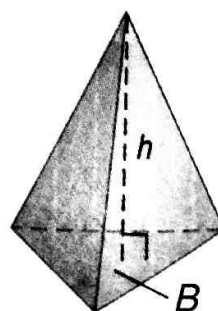
22. **GARDENING** Mrs. Patton is planning to place a fence around her vegetable garden. The fencing costs \$1.75 per yard. She buys f yards of fencing and pays \$3.50 in tax. If the total cost of the fencing is \$73.50, write an equation to represent the situation.

Translate each sentence into a formula.

23. The area A of a parallelogram is the base b times the height h .



24. The volume V of a pyramid is one-third times the product of the area of the base B and its height h .



25. The perimeter P of a parallelogram is twice the sum of the lengths of its adjacent sides.

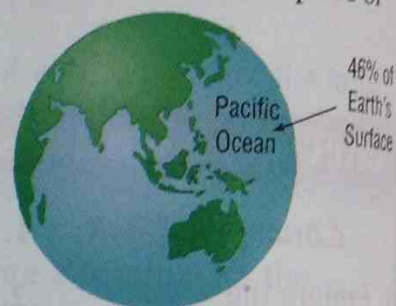
Network Help

Problems	See Examples
22	1
28	3
38	4
40	5
51	2

Practice page 825.

Translate each sentence into an equation.

13. Two hundred minus three times x is equal to nine. $200 - 3x = 9$
14. The sum of twice r and three times s is identical to thirteen. $2r + 3s = 13$
15. The sum of one-third q and 25 is as much as twice q . $\frac{1}{3}q + 25 = 2q$
16. The square of m minus the cube of n is sixteen. $m^2 - n^3 = 16$
17. Two times the sum of v and w is equal to two times z . $2(v + w) = 2z$
- ★ 18. Half of the sum of nine and p is the same as p minus three. $\frac{1}{2}(9 + p) = p - 3$
- ★ 19. The number g divided by the number h is the same as seven more than twice the sum of g and h . $g \div h = 2(g + h) + 7$
20. Five-ninths the square of the sum of a , b , and c equals the sum of the square of a and the square of c . $\frac{5}{9}(a + b + c)^2 = a^2 + c^2$
21. **GEOGRAPHY** The Pacific Ocean covers about 46% of Earth. If P represents the area of the Pacific Ocean and E represents the area of Earth, write an equation for this situation. $0.46E = P$
22. **GARDENING** Mrs. Patton is planning to place a fence around her vegetable garden. The fencing costs \$1.75 per yard. She buys f yards of fencing and pays \$3.50 in tax. If the total cost of the fencing is \$73.50, write an equation to represent the situation. $1.75f + 3.50 = 73.50$

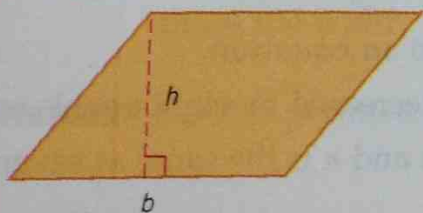


Source: World Book Encyclopedia

Translate each sentence into a formula.

23. The area A of a parallelogram is the base b times the height h .

$$A = bh$$



24. The volume V of a pyramid is one-third times the product of the area of the base B and its height h .

$$V = \frac{1}{3}Bh$$

